

DEVAL L. PATRICK GOVERNOR TIMOTHY P. MURRAY LIEUTENANT GOVERNOR JUDYANN BIGBY, MD SECRETARY JOHN AUERBACH

COMMISSIONER

# The Commonwealth of Massachusetts

Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

12/02/2010

Ryan Mingo Assistant District Attorney, Suffolk County

Dear ADA Mingo,

Enclosed is the information you requested in regards to Commonwealth vs. Incomises of the following:

Included are

- 1. Drug Analysis Laboratory Receipt.
- 2. Curriculum Vitae for Annie Khan & Daniela Frasca.
- 3. Control Cards with analytical results for samples #

\_\_\_\_\_

- 4. Analysis sheets with chemist's hand notations and test results.
- 5. GC/Mass Spectral analytical data for samples #

Daniela Frasca was the custodial chemist and performed the preliminary testing and net weight for this sample. Annie Khan (Dookhan) was the confirmatory chemist and analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely

Annie Khan (Dookhan)

Chemist II

Drug Analysis Lab

Jamaica Plain, MA. 02130

(617) 983-6631

Annie.Khan@state.ma.us

Bosion Police

воок # <u>\_\_\_\_\_\_</u>50

**DRUG RECEIPT** 

olstrict/Unit D-4 DC4		Destruction#	
	Manus De	<u>+</u>	903/84)
DEFENDANT'S NAME	ADDRESS #STREET	CITY	STATE
		Boston	Ma.
		Boston	Ma.
DRUGS — IMPLEMENTS — AND/OR	PARAPHERNALIA	GROSS QUANTITY	ANALYSIS NUMBER
Cocaine 4	4.828	OPB	-
Cocaine 5	4,9/2	OP/6	
Cocaine 5	5, 28	O dollar bill	
Cocaine	7.83g	3) P/b:5	
Received by			05

05-1457

#### Curriculum Vitae

## Annie Khan (Dookhan)

#### **Education:**

University of Massachusetts, Boston, Ma, Master of Science in Chemistry University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry

#### Experience:

2003 - present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- \*Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- \*Appointed Assistant Analyst by Assistant Commissioner of Public Health, January 2004.
- \*Responsible for the identification of drugs to determine violations of harmful and narcotic drug laws.
- \*Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- \*Maintenance and repairs of analytical instruments.
- \*Maintain the Quality Control of analytical instruments and controls/standards.
- \* Maintain the Quality Control/Quality Assurance program for the drug lab.
- \*Notary Public
- \*Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 - 2003

QC Analyst II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- \*Completed proficiency training conducted by a member of the staff within the Massachusetts Biologic Laboratory, Quality Control and Quality Assurance Department.
- \*Routine QC testing of products for the FDA.
- \*Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- \*Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- \*Writing, revising and reviewing Standard Operating Procedures (SOPs).
- \*Complete testing of chemicals for Vendor Validation Project for the FDA.
- \*Method Development for creating new techniques for the QC Department.
- \*Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

#### Additional Training:

Dept of Justice - Forensics Professionals

GLP/GMP course with Massachusetts Biologic Laboratory.

QC/QA training according to FDA Codes and Regulations.

GC and GC/MS courses with Agilent Technologies and Restek.

HPLC course with Waters Cooperation.

FTIR course with Spectros.

TOC training with Massachusetts Biologic Laboratory and Sievers.

### Association:

American Chemical Society (ACS)

Northeastern Association of Forensics Science (NEAFS)

#### Daniela Frasca

## Education

## Boston University School of Medicine, Boston MA

Currently enrolled in the Biomedical Forensic Science MS Program

## Suffolk University, Boston, MA

Graduated in 05/1996 and received a Bachelor of Science in Biochemistry

## **EXPERIENCE**

Massachusetts State Laboratory Institute/DPH, Jamaica Plain, MA 01/2001 – present Drug Laboratory: Chemist II

- Analysis of all substances by chemical screening, microscopy, and instrument confirmation to determine the presence of drugs for law enforcement agencies in the Commonwealth of Massachusetts.
- Appointed assistant analyst on January 29, 2001 by the Assistant Commissioner of DPH
- Completed four weeks of training in drug analysis under the supervision of senior chemists.

## Quest Diagnostics Incorporated, Cambridge, MA

09/1996 - 10/2001

Department of Toxicology: Medical Technologist I

- Handles comprehensive toxic analysis, therapeutic drug monitoring, forensic drug screening, and compound ID's of biohazard samples utilizing standard operating procedures in clinical toxicology.
- · Entered data and interpreted results for reporting
- QC/QA of multiple analytical instrumentation as well as maintenance
- Completed 60 days of training under the supervision of doctorate level toxicologists.

# **Additional Training**

## Northeastern Association of Forensic Scientists

Designer Drugs

Clandestine labs

Agilent Instruments and Software

Digital Photography

#### McCrone Research Institute

Forensic Polarized Microscopy

Polarized Microscopy of Illicit Drugs and Excipients

## Massachusetts State Laboratory Institute

**Expert Witness** 

Raman Spectroscopy

# **Associations and Programs**

•	Northeastern Association of Forensic Scientists (NEAFS)	2001 - present
•	The International Association of Forensic Toxicologists (TIAFT)	2003 - present
•	The International Association of Therapeutic Drug Monitoring And Clinical Toxicology (IATDMCT)	2003 - present
•	Massachusetts State Science Fair Judge	2000 - present
٠	Middle School State Science Fair Judge	2006 - present
•	Volunteer Science Project Mentor/Tutor	2003 - present
	for the TTT Mentor Program	

1 PB Am't: Sub: SUB Cont: **#TESTED:** From: P.O. WM. DONNELLY Date Rec: 04/07/2005 4.82 Gross Wt: # Tests: QUANT: City: Def: 02 ASO Net Weight: 0.69 FINDINGS: cocceina QUANT: BOSTON D.C.U #TESTED: 04/07/2005 From Sub: Date Analyzed: O5-72-05 FINDINGS: Date City: BOSTON D.C.U. Def: From: Am't: Sub: SUB **#TESTED:** Date Rec: 04/07/2005 From: P.O. WM. DONNELLY 0000000 G Gross Wt: 4.91 # Tests: Net Weight: 0.58 oren So FINDINGS: QUANT: Date Analyzed: 05-11-05 No. BOSTON D.C.U. City: Def: 1 \$1.00 BILL Sub: SUB Cont: Am't: #TESTED: From: P.O. WM. DONNELLY Date Rec: 04/07/2005 # Tests: 5.20 Gross Wt: Net Weight: 0/6 FINDINGS:

QUANT:

Prelim: Coolhe

City: BOSTON D.C.U.

Def:

Date Analyzed: OS-11-05-

# DRUG POWDER ANALYSIS FORM AGENCY BOSTOS ANALYST ON SAMPLE # Ev. mak PHYSICAL DESCRIPTION: Prece of paper 1PB Gross M. O. 7999 Nor W. Q. 6449) Meck Cobalt t, blue Gold t TLTA+

PRELIMINARY TEST RESULTS
COCAINE
HEROIN
NEGATIVE
OTHER
DATE 5/0/25

FINAL	TEST RESULTS
	COCAINE
	HEROIN
i	NEGATIVE
r <sup>.</sup>	OTHER
	DATE: \$ 5/11/05
	NAMSI ASD
	Folk_OIG_PRR_051634

DRUG POWDER AN	ALYSIS FORM	·
SAMPLE #	AGENCY Boshows	ANALYST
'HYSICAL DESCRIPTION:	Piece of paper	Br. mak
	Terred New 11	
Marg.		
Fraed		
Meck		
Cobalt	t, blue	
Gald 7		
TUTHY	_	

PRELIMINARY TEST RESULTS
COCAINE
HEROIN
NEGATIVE
OTHER
DATE 5-/9/05-

FINAL TEST RESULTS
COCAINE
HEROIN
NEGATIVE
OTHER
DATE: 9/11/05
WIME! ASP

Folk\_OIG\_PRR\_051635

DRUG POWDER	ANALYSIS FORM			
SAMPLE #	AGENCY 1305	Chann AA	IALYST DE	
PHYSICAL DESCRIPTION	on: Piece or	- paper	Ev. M.	OK
Roma	ler in 19	•		> Teske
Marg		liness.	nn 1.162	59
Proed		Norm	21 Q. 1600	79
Medk				
Coball	It to blue			
Gald	•			
TLTA	+		·	

PRELIMINARY TEST RESULTS  COCAINE
HEROIN
NEGATIVE
OTHER
DATE 5/9/05

FINAL	TEST RESULTS
	COCAINE
i	HEROIN
	NEGATIVE
ř	OTHER
	DATE: 5/1/05
	DUNS! MED
	Folk_OIG_PRR_051636

•

DRUG PUNDER A	MALTSIS FURIN			
SAMPLE #	AGENCY 1305	ikm	ANALYST.	5)
PHYSICAL DESCRIPTION	vi Piace of	C Paper	Ev. w.	2 OK
Pomale	en in 5	•		
Marg		lins,	s mot de zad!	7, 7/359
Praea	/_			
Meck		1 and	rof hzed:0,	59649
Coba	4 t blue			
Gold	<i>*</i>			·
TLIA	' <i>+</i>			

PRELIMINARY TEST RESULTS
COCAINE
HEROIN
NEGATIVE
OTHER
DATE.

IMAL	. TEST KESULIS
	COCAINE
	HEROIN
	NEGATIVE
,	OTHER
,	DATE: 5/11/05

DATE: - JIJUS WIMNE ASP FOIK\_OIG\_PRR\_051637

File Name : D:\SYSTEM6\05 10 05\404825.D

Operator : ASD Date Acquired : 10 May 2005 18:59

Sample Name

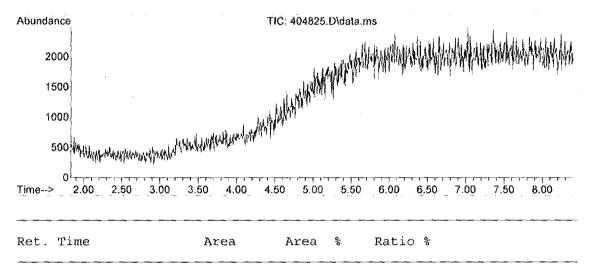
: BLANK

Submitted by

Vial Number AcquisitionMeth: DRUGS

25

Integrator : RTE



File Name : D:\SYSTEM6\05\_10\_05\404826.D

Sample Name

: COCAINE STD

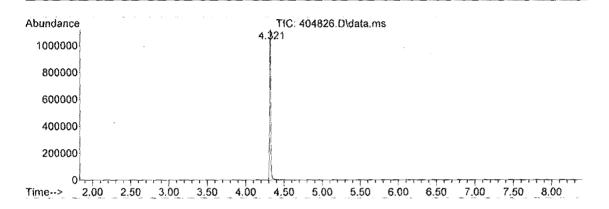
Submitted by

Vial Number AcquisitionMeth: DRUGS

26

Integrator

: RTE



Ret. Time	Area	Area %	Ratio %
4.321	1105486	100.00	100.00

File Name : D:\SYSTEM6\05 10 05\404826.D

Operator : ASD

Date Acquired : 10 May 2005 19:11

Sample Name

: COCAINE STD

Submitted by

Vial Number

26

AcquisitionMeth: DRUGS Integrator

: RTE

Search Libraries:

RT

PK#

C:\Database\SLI.L

Minimum Quality: 80

CAS#

C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW\_TOX2.L

Qual

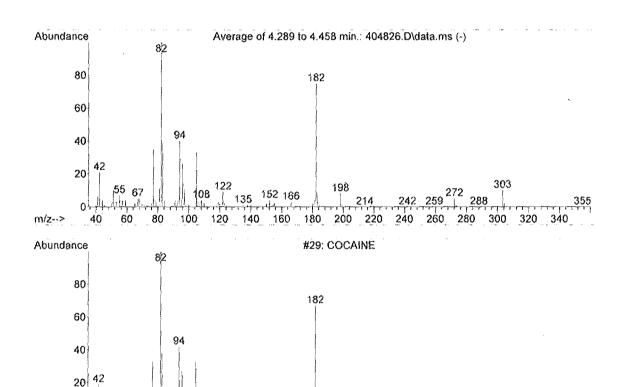
1 4.32 C:\Database\SLI.L

COCAINE

Library/ID

000050-36-2

99



55 68

60

80

100

ስት 40

m/z-->

152 166

160

180

200

135

140

120

303

300 320 340

240

260

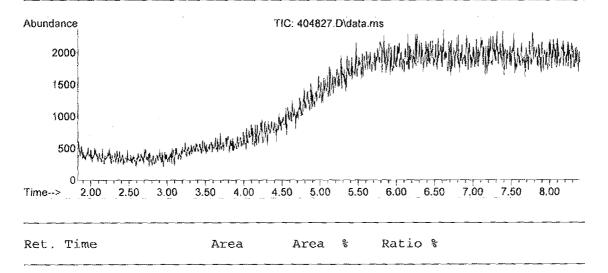
280

220

File Name : D:\SYSTEM6\05\_10\_05\404827.D

Operator : ASD
Date Acquired : 10 May 2005 19:22

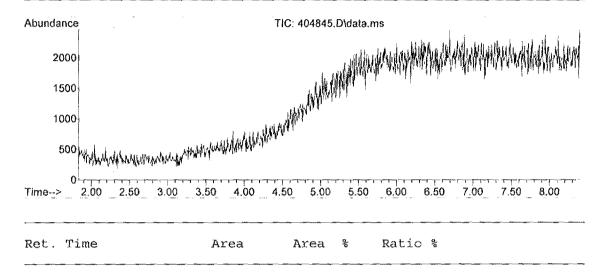
Sample Name : BLANK Submitted by : MAI Vial Number : 27 AcquisitionMeth: DRUGS Integrator : RTE



File Name : D:\SYSTEM6\05\_10\_05\404845.D

Operator : ASD Date Acquired : 10 May 2005 22:54

Sample Name : BLANK Submitted by : DXF Vial Number : 45 AcquisitionMeth: DRUGS Integrator : RTE

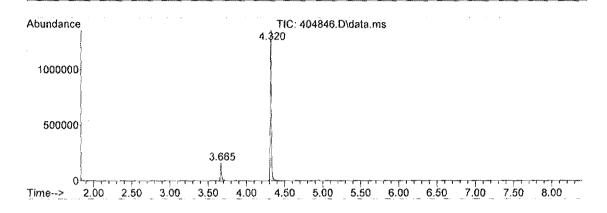


File Name : D:\SYSTEM6\05\_10\_05\404846.D

Operator : ASD

Date Acquired : 10 May 2005 23:06

Sample Name :
Submitted by : DXF
Vial Number : 46
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %	
3.665 4.320	179994 1335796	11.87 88.13	— <del>-</del> · · · ·	

File Name : D:\SYSTEM6\05 10 05\404846.D

Operator : ASD

Date Acquired : 10 May 2005 23:06

Sample Name Submitted by

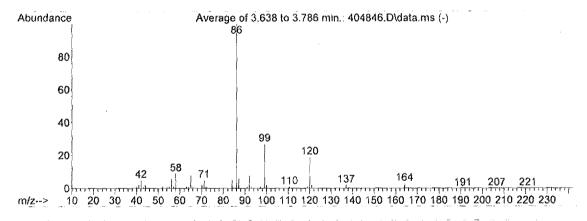
DXF Vial Number 46 AcquisitionMeth: DRUGS : RTE Integrator

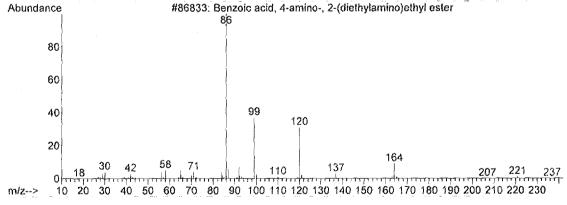
C:\Database\SLI.L Minimum Quality: 80 Search Libraries:

C:\Database\NIST08.L

Minimum Quality: 80 C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	3.66	C:\Database\NIST08.L Benzoic acid, 4-amino-, 2-(diethyla	000059-46-1	83
		Benzamide, 4-amino-N-[2-(diethylami Benzamide, 4-amino-N-[2-(diethylami	000051-06-9	83 83





File Name : D:\SYSTEM6\05 10 05\404846.D

Operator : ASD

Date Acquired 10 May 2005 23:06

Sample Name

Submitted by DXF Vial Number 46 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries:

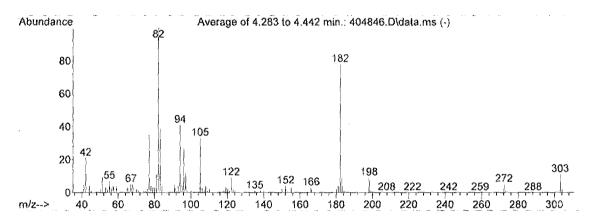
C:\Database\SLI.L Minimum Quality: 80

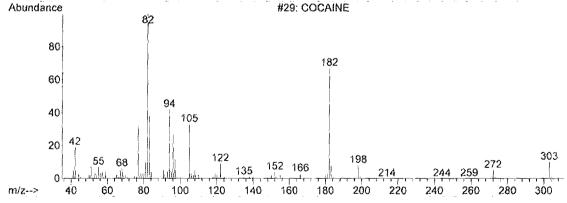
C:\Database\NIST08.L

Minimum Quality: 80

C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	4.32	C:\Database\SLI.L		
		COCAINE	000050-36-2	99





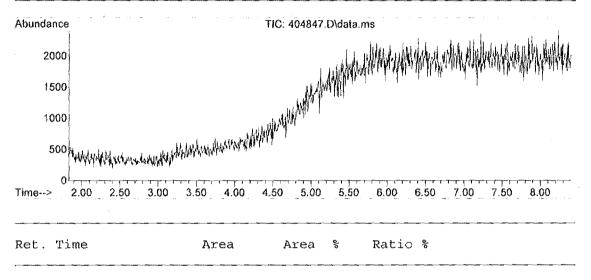
File Name : D:\SYSTEM6\05 10 05\404847.D

Operator : ASD
Date Acquired : 10 May 2005 23:17

Sample Name : BLANK

Submitted by

: 47 Vial Number AcquisitionMeth: DRUGS Integrator : RTE



File Name : D:\SYSTEM6\05 10 05\404848.D

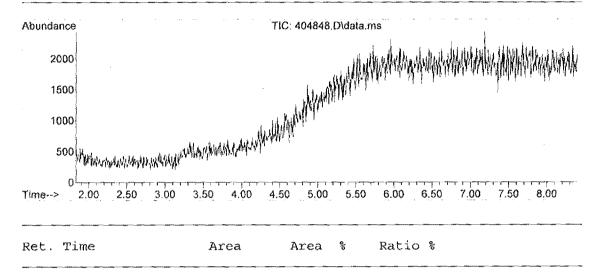
Operator : ASD

Date Acquired : 10 May 2005 23:29

Sample Name : BLANK

Submitted by

Vial Number : 48 AcquisitionMeth: DRUGS Integrator : RTE



File Name : D:\SYSTEM6\05\_10\_05\404849.D

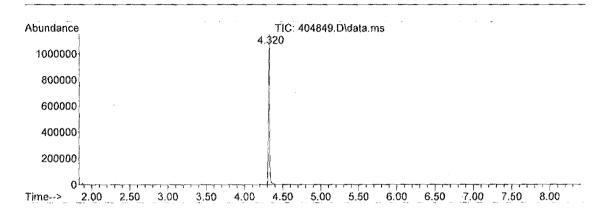
Operator : ASD

Date Acquired : 10 May 2005 23:41

Sample Name : COCAINE STD

Submitted by

Vial Number : 49 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.320	1132970	100.00	100.00

File Name : D:\SYSTEM6\05\_10\_05\404849.D

Operator : ASD

Date Acquired : 10 May 2005 23:41

: COCAINE STD Sample Name

Submitted by

Vial Number 49 AcquisitionMeth: DRUGS : RTE Integrator

C:\Database\SLI.L Search Libraries: Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW\_TOX2.L

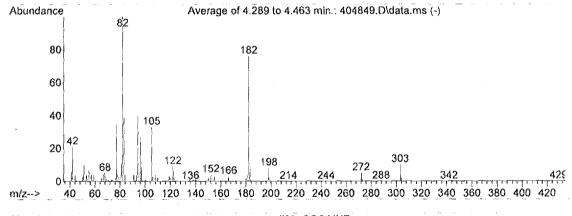
PK# RTLibrary/ID CAS# Qual

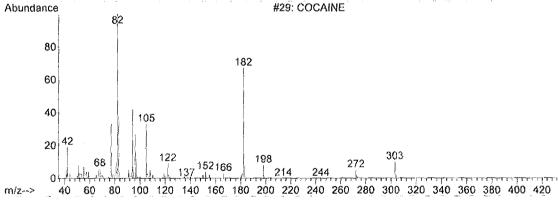
1 4.32 C:\Database\SLI.L

COCAINE

000050-36-2

99



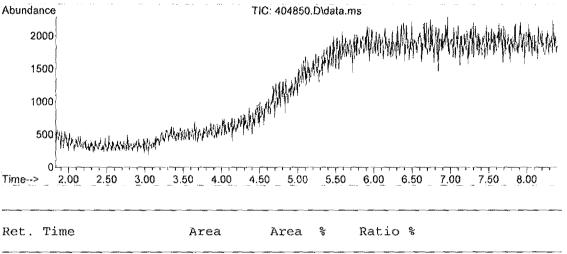


File Name : D:\SYSTEM6\05\_10\_05\404850.D

Operator : ASD

Date Acquired: 10 May 2005 23:53

Sample Name : BLANK Submitted by : DXF Vial Number : 50 AcquisitionMeth: DRUGS Integrator : RTE

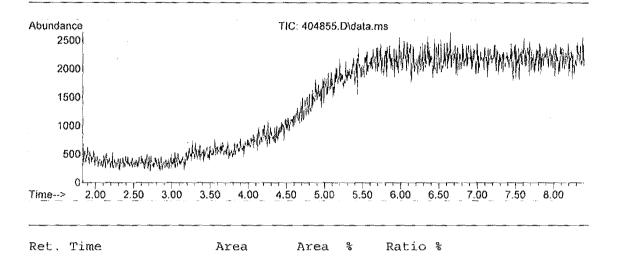


File Name : D:\SYSTEM6\05\_10\_05\404855.D

Operator : ASD

Date Acquired : 11 May 2005 00:52

Sample Name : BLANK Submitted by : DXF Vial Number : 55 AcquisitionMeth: DRUGS Integrator : RTE



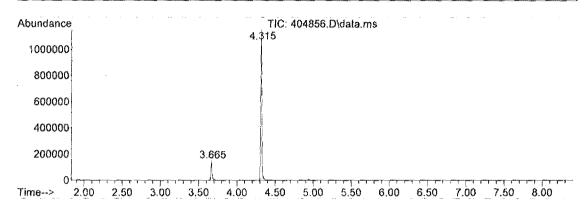
File Name : D:\SYSTEM6\05\_10\_05\404856.D

Operator : ASD

Date Acquired : 11 May 2005 1:03

Sample Name Submitted by

: DXF Vial Number 56 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
3.665 4.315		12.67 87.33	

```
Information from Data File:
File Name
                : D:\SYSTEM6\05 10 05\404856.D
Operator
                : ASD
Date Acquired
                   11 May 2005
Sample Name
Submitted by
                : DXF
Vial Number
                    56
AcquisitionMeth: DRUGS
Integrator
                : RTE
Search Libraries:
                     C:\Database\SLI.L
                                                       Minimum Quality: 80
                     C:\Database\NIST08.L
                                                       Minimum Quality: 80
                     C:\Database\PMW TOX2.L
                                                            CAS#
  PK#
         RT
                 Library/ID
                                                                        Oua1
                C:\Database\NIST08.L
   1
         3.66
                 Benzamide, 4-amino-N-[2-(diethylami 000051-06-9
                                                                         83
                 Benzoic acid, 4-amino-, 2-(diethyla 000059-46-1
                                                                         83
                 Benzamide, 4-amino-N-[2-(diethylami 000051-06-9
                                                                         83
                        Average of 3.644 to 3.786 min.: 404856.D\data.ms (-)
Abundance
     80
     60
     40
                   120
     20
                     137 164
       40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480
m/z-->
Abundance
                       #86202: Benzamide, 4-amino-N-[2-(diethylamino)ethyl]-
              86
     80
     60
     40
     20
                  120
          58
                    m/z-->
      40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480
```

File Name : D:\SYSTEM6\05\_10\_05\404856.D

Operator : ASD

Date Acquired 11 May 2005 1:03

Sample Name

: DXF Submitted by Vial Number 56 AcquisitionMeth: DRUGS : RTE Integrator

C:\Database\SLI.L Search Libraries: Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

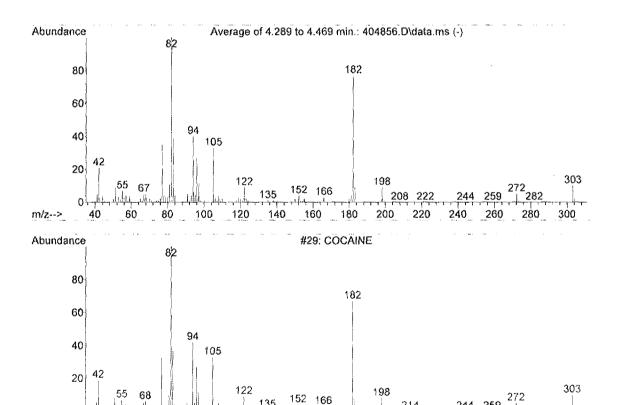
C:\Database\PMW\_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
_	4 50	a lm , 1 ) arm r		

C:\Database\SLI.L 4.32 COCAINE

000050-36-2

99



0

40

60

80

100

m/z-->

135

140

160

120

240

260

300

200

220

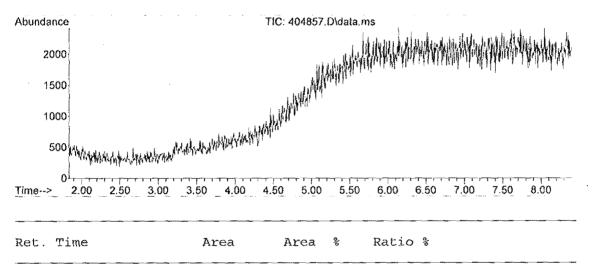
180

File Name : D:\SYSTEM6\05\_10\_05\404857.D

Operator : ASD

Date Acquired : 11 May 2005 1:15

Sample Name : BLANK Submitted by : DXF Vial Number : 57 AcquisitionMeth: DRUGS Integrator : RTE



File Name : D:\SYSTEM6\05\_10\_05\404858.D

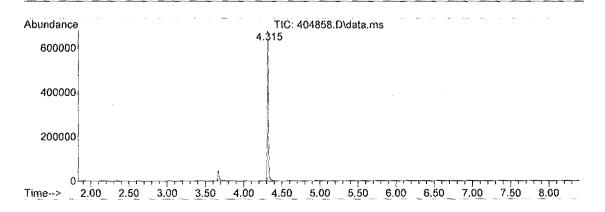
Operator : ASD

Date Acquired : 11 May 2005 1:27

Sample Name Submitted by

: DXF 58

Vial Number AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.315	604625	100.00	100.00

404858.D

File Name : D:\SYSTEM6\05 10 05\404858.D

: ASD Operator

Date Acquired Sample Name

11 May 2005 1:27

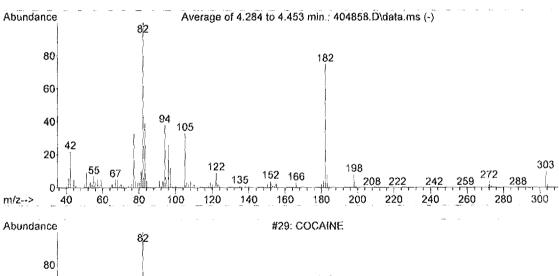
Submitted by DXF Vial Number 58 AcquisitionMeth: DRUGS Integrator : RTE

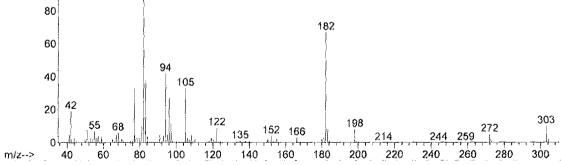
Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.32	C:\Database\SLI.L COCAINE	000050-36-2	99



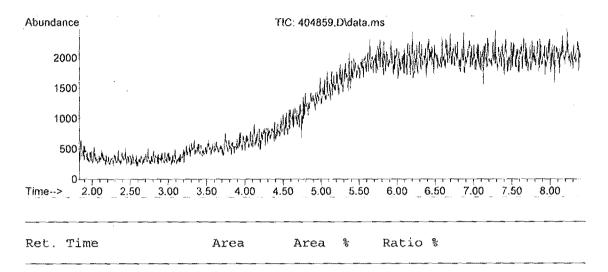


File Name : D:\SYSTEM6\05 10 05\404859.D

Operator : ASD

Date Acquired : 11 May 2005 1:38

Sample Name : BLANK Submitted by : DXF Vial Number : 59 AcquisitionMeth: DRUGS Integrator : RTE



File Name : D:\SYSTEM6\05\_10 05\404860.D

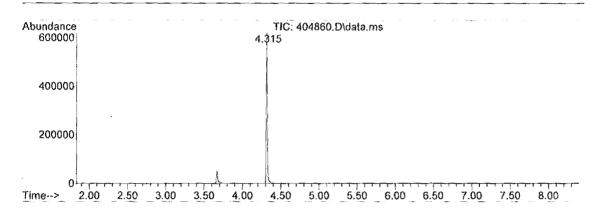
Operator : ASD

Date Acquired : 11 May 2005

Sample Name

\_\_May\_2005 1:50

Submitted by : DXF Vial Number : 60 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.315	561041	100.00	100.00

File Name : D:\SYSTEM6\05 10 05\404860.D

Operator : ASD

Date Acquired 11 May 2005

Sample Name Submitted by

DXF Vial Number 60 AcquisitionMeth: DRUGS Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80 Minimum Quality: 80

C:\Database\NIST08.L

C:\Database\PMW\_TOX2.L

PK# RT Library/ID CAS# Qual

4.32 C:\Database\SLI,L 1 COCAINE

000050-36-2

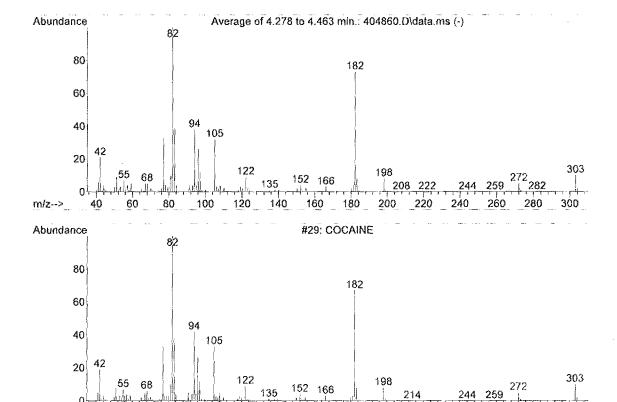
200

180

220

240

99



160

140

40

m/z-->

60

80

100

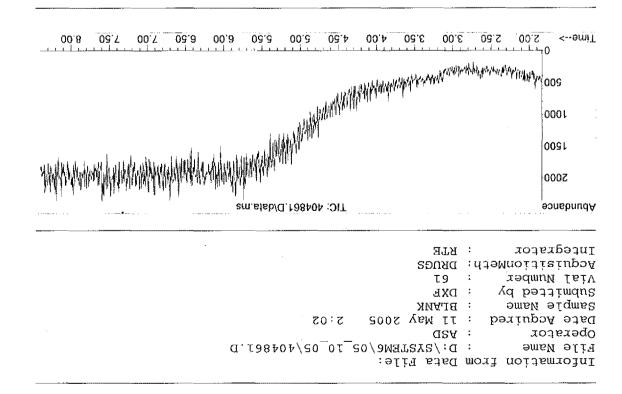
120

260

280

300





Area Perdent / Library Search Report

БЭҮА

Area

Ratio %

\*\*\*NO INTEGRATED PEAKS\*\*\*

Ret. Time

File Name : D:\SYSTEM6\05 10\_05\404868.D

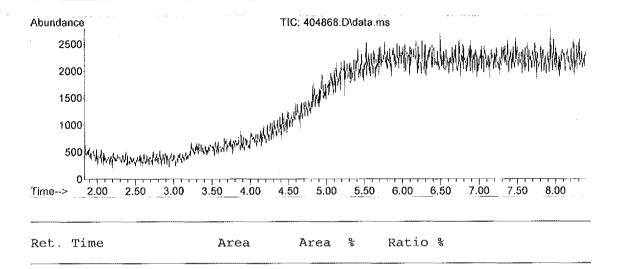
Operator : ASD

Date Acquired : 11 May 2005 3:24

Sample Name : BLANK

Submitted by

Vial Number : 68 AcquisitionMeth: DRUGS Integrator : RTE



### Area Percent / Library Search Report

Information from Data File:

File Name : D:\SYSTEM6\05 10 05\404869.D

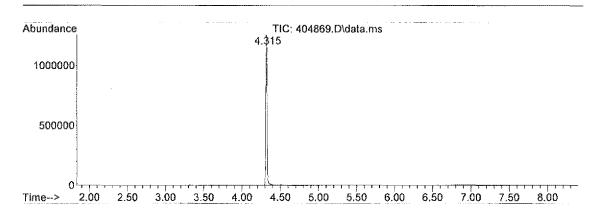
Operator : ASD

Date Acquired : 11 May 2005 3:36

Sample Name : COCAINE STD

Submitted by

Vial Number : 69 AcquisitionMeth: DRUGS Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.315	1267117	100.00	

File Name : D:\SYSTEM6\05\_10\_05\404869.D

Operator : ASD

Date Acquired : 11 May 2005 3:36

Sample Name : COCAINE STD

Submitted by

PK#

Vial Number 69 AcquisitionMeth: DRUGS Integrator : RTE

RT

Search Libraries: C:\Database\SLI.L

C:\Database\NIST08.L

C:\Database\PMW TOX2.L

Minimum Quality: 80

Minimum Quality: 80

1 4.32 C:\Database\SLI.L

COCAINE

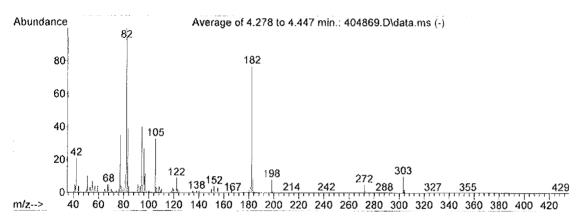
Library/ID

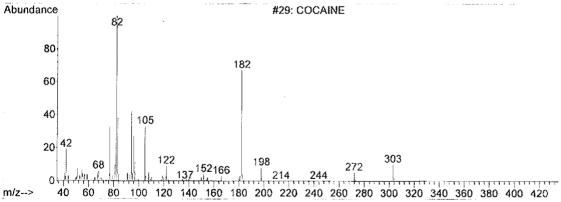
000050-36-2

CAS#

99

Oual





File Name : D:\SYSTEM6\05 10 05\404870.D

Operator : ASD

Date Acquired : 11 May 2005 3:48

Sample Name : BLANK

Submitted by

Vial Number : 70 AcquisitionMeth: DRUGS Integrator : RTE

